## BAYTECH CORPORATION

EXECUTIVE ORDER A-330-0218
New On-Road Heavy-Duty Engines

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL	ENGINE FAMILY		ENGINE	FUEL TYPE 1	STANDARDS & TEST	SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6			
YEAR			SIZES (L)		PROCEDURE	CLASS 1	2TWC, SFI, 2HO2S(2)				
2010	ABYTE06.0	613	6.0	CNG	Otto	HDO					
	'ENGINE'S IDLE NS CONTROL			AC	DITIONAL IDLE EN	IISSIONS CON	TROL 5				
	N/A				N	/A					
ENGINE (	ω l			ENGINE MO	DELS / CODES (ra	ted power, in I	np)				
6.0	···	GM 6.0L / 1 (266)									
+	_				*						
*					*						
L=liter, hp CNG/LI L/M/H I ECS=e up catalyst TBI=throttli super charge control mode ESS=et (per 13 CC	p=horsepower, kw=ki NG=compressed/iqu HDD=light/medium/hy mission control syste ; DPF=diesel particue per, CAC=charge ail dule; EM=engine mo ngine shutdown syste R 1956 84(6)(D): E 1956 84(6)(D): E	ellowatt; hi efied natu eavy heav m; TWC/ ellate filter; SFI/MFI= r cooler; E edification; em (per 13 exempt=e	r=hour; ral gas; LPG=liquefie y-duty diesel; UB=urb OC=three-way/oxidizir PTOX=periodic trap o sequential/multi port fi EGR / EGR-C=exhaus 2 (prefix)=parallel; ( 3 CCR 1956.8(a)(6)(A) xempted per 13 CCR	d petroleum gas; E85=85% an bus; HDO=heavy duty C g catalyst; NAC=NOx adso xidzer; HO25/025=heated jeai rijection; DGI=direct gas gas redirculation / cooled E 2) (suffix)=in series.	ethanol fuel; MF=mul bito; irption catalyst; SCR-I floxygen sensor; HAF soline injection; GCAF GR; PAIR/AIR=pulse 13 CCR 1956.8(a)(6)(C JNG fuel systems; N/J	ti fuel a.k.a. BF=  J / SCR-N=selec S/AFS=heated/a RB=gaseous cart d/secondary air i  C); APS =interna A=not applicable	86.abc=Title 40, Code of Federal Regulation in the properties of t	WU (prefix) =warm- ir oxygen sensor); ion; TC/SC≍turbo/ M≃engine/powertrain			

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in parentheses.).

in g/bhp-hr	NMHC		NOx		NMHC+NOx		co		PM		HCHO	
	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.14	*	0.20	*	*	*	14.4	*	0.01	*	0.01	*
FEL	*	*	*	*	*	*	*	*	*	*	*	*
CERT	0.04	*	0.16	*	*	*	2.9	*	0.001	*	0.001	*
NTE	*		*		*		*			*		*

g/bhp-hr=grams per brake horsepower-hour, FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET=ram mode cycle supplemental emissions testing; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde; (Rev.: 2007-02-26)

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels) and 13 CCR 2035 et seq. (emission control warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations. The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this \_\_\_\_

 $\overline{29}$  day of September 2009.

Annette Hebert, Chief

**Mobile Source Operations Division**